

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-26 (Canceled).

Claim 27 (Currently Amended): An information medium configured to have data recorded thereon by a recording apparatus and data reproduced therefrom by a reproducing apparatus, said data including management information used to access a stream object for at least one of recording and reproducing the data by at least one of the recording apparatus and the reproducing apparatus and bitstream information, said information medium comprising:

a data area configured to record the bitstream information, and a management area configured to record the management information, wherein

a first data unit defines a data packet of MPEG-TS ~~transport packets or application packets~~,  
packets,

a second data unit defines a data unit of stream blocks or stream object units,

a third data unit defines an object data of said stream object,

said bitstream information to be recorded in the data area is configured by at least one said third data unit including at least one said second data unit including one or more pairs of said first data unit and reception time information,

said second data unit includes header information just before the reception time information of a first pair of said first data unit and reception time information,

said header information includes reception time-related information and information indicating whether stuffing data is present in the data packet of the MPEG-TS or in the first data unit, and

the management information is used to access the bitstream information to reproduce at least one data unit with said reproducing apparatus.

Claims 28-36 (Canceled).

Claim 37 (Currently Amended): A method of recording bitstream information on an information medium having a data area and a management area, said information medium comprising a data area configured to record the bitstream information, and a management area configured to record the management information, wherein

a first data unit defines a data packet of MPEG-TS ~~transport packets or application packets~~,

a second data unit defines a data unit of stream blocks or stream object units,

a third data unit defines an object data of said stream object,

said bitstream information to be recorded in the data area is configured by at least one said third data unit including at least one said second data unit including one or more pairs of said first data unit and reception time information,

said second data unit includes header information just before the reception time information of a first pair of said first data unit and reception time information, and

said header information includes reception time-related information and information indicating whether stuffing data is present in the data packet of the MPEG-TS or in the first data unit,

said recording method comprising:

recording the bitstream information of the data area; and

recording management information of the bitstream information on the management area.

Claim 38 (Currently Amended): A method of reproducing bitstream information from an information medium having a data area and a management area, said information

medium comprising a data area configured to record the bitstream information, and a management area configured to record the management information, wherein

a first data unit defines a data packet of MPEG-TS ~~transport packets or application packets~~,  
~~packets~~,

a second data unit defines a data unit of stream blocks or stream object units,

a third data unit defines an object data of said stream object,

said bitstream information to be recorded in the data area is configured by at least one said third data unit including at least one said second data unit including one or more pairs of said first data unit and reception time information,

said second data unit includes header information just before the reception time information of a first pair of said first data unit and reception time information, and

said header information includes reception time-related information and information indicating whether stuffing data is present in the data packet of the MPEG-TS or in the first data unit,

said reproducing method comprising:

reproducing management information of the bitstream information from the management area; and

reproducing the bitstream information from the data area.

Claim 39 (Canceled).

Claim 40 (Currently Amended): An apparatus for recording bitstream information on an information medium having a data area and a management area, said information medium comprising a data area configured to record the bitstream information, and a management area configured to record the management information, wherein

a first data unit defines a data packet of MPEG-TS ~~transport packets or application packets~~,

a second data unit defines a data unit of stream blocks or stream object units,

a third data unit defines an object data of said stream object,

said bitstream information to be recorded in the data area is configured by at least one said third data unit including at least one said second data unit including one or more pairs of said first data unit and reception time information,

said second data unit includes header information just before the reception time information of a first pair of said first data unit and reception time information, and

said header information includes reception time-related information and information indicating whether stuffing data is present in the data packet of the MPEG-TS or in the first data unit,

said apparatus comprising:

a first recorder configured to record the bitstream information on the data area; and

a second recorder configured to record management information of the bitstream information on the management area.

Claim 41 (Currently Amended): An apparatus for reproducing bitstream information from an information medium having a data area and a management area, said information medium comprising a data area configured to record the bitstream information, and a management area configured to record the management information, wherein

a first data unit defines a data packet of MPEG-TS ~~transport packets or application packets~~,

a second data unit defines a data unit of stream blocks or stream object units,

a third data unit defines an object data of said stream object,

said bitstream information to be recorded in the data area is configured by at least one said third data unit including at least one said second data unit including one or more pairs of said first data unit and reception time information,

said second data unit includes header information just before the reception time information of a first pair of said first data unit and reception time information, and

said header information includes reception time-related information and information indicating whether stuffing data is present in the data packet of the MPEG-TS or in the first data unit,

said apparatus comprising:

a first reproducer configured to reproduce management information of the bitstream information from the management area; and

a second reproducer configured to reproduce the bitstream information from the data area.

Claims 42-43 (Canceled).

Claim 44 (Previously Presented): The information medium recited in Claim 27, wherein said reception time-related information included in the header information relates to a leading first data unit of said pairs of first data units and the reception time information associated therewith.